Service Manual



Colour Television

TX-28CK1

TX-25CK1

Z8 Chassis

SPECIFICATION

(Information in brackets { } refers to model TX-25CK1)

Power Source: 220-240V a.c., 50Hz

Power Consumption: 76W {76W}

Stand-by Power

Consumption: $0.9W \{0.9W\}$

Aerial Impedance: 75 Ω unbalanced, Coaxial Type

Receiving System: PAL I, PAL-525/60

M.NTSC

NTSC (AV only)

Receiving Channels: UHF E21-E68

Intermediate Frequency:

Video/Audio

Video 38,9MHz Audio 32,9MHz

32,35MHz (NICAM)

Colour 34,47MHz

Terminals:

AV1 IN Video (21 pin) $1V p-p 75\Omega$

Audio (21 pin) 500mV rms $10k\Omega$ RGB (21 pin) 0,7V p-p 75Ω

AV1 OUT Video (21 pin) $1V p-p 75\Omega$

Audio (21 pin) 500mV rms $1k\Omega$

High Voltage: $28kV \pm 1kV$ { $28kV \pm 1kV$ }

Picture Tube: A66ECF50X04 66cm

{A59EEQ15X97 59cm}

Audio Output: 2 x 10W (M.P.O.)

 $2 \times 5W (R.M.S.)$ 8Ω Impedance

Headphones: 8Ω Impedance

3,5mm

Accessories supplied:

ied: Remote Control 2 x R6 (UM3) Batteries

T.V. Stand TS2800

Dimensions:

 Height:
 580mm
 {538mm}

 Width:
 646mm
 {580mm}

 Depth:
 471mm
 {442,5mm}

Net weight: 33kg {27kg}

Specifications are subject to change without notice. Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with

the Z8 Technical guide.

Panasonic CS (U.K.) Ltd. WILLOUGHBY ROAD, BRACKNELL, BERKS, RG12 8FT.

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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

- 1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
- When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
- After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
- When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
- 5. Potentials as high as 29kV {29kV} are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

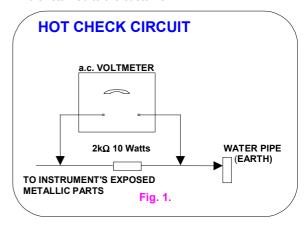
LEAKAGE CURRENT COLD CHECK

- 1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
- 2. Turn on the receiver's power switch.
- 3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

- 1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
- Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
- Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
- Check each exposed metallic part and check the voltage at each point.

- Reverse the a.c. plug at the outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 1,4Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.



X-RADIATION WARNING

- The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that the jig is capable of handling 29kV {29kV} without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

- 1. Set the brightness to minimum.
- Measure the high voltage. The meter should indicate. TX-28CK1, TX-25CK1 28kV ± 1kV.

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 5 screws as shown in



Fig.2.

LOCATION OF CONTROLS

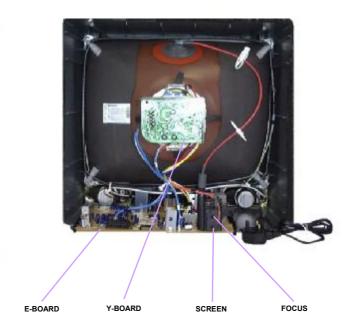


Fig.3.

ADJUSTMENT PROCEDURE

| Item / Preparation | Adjustments | | |
|------------------------------------|--|--|--|
| +B SET-UP | Confirm the following voltages. | | |
| Receive a Greyscale signal. | | | |
| 2. Set the controls :- | TPE1 3,3 ± 0,3V TPE13 -13 ± 1V | | |
| | TPE2 195 ± 10V TPE14 27,5 ± 1,5V | | |
| Brightness Minimum | TPE3 13,5 ± 1V TPE15 28 ± 1,5V | | |
| | TPE4 10 ± 1V TPE16 11,5 ± 1V TPE8 5 ± 0.3V TPE17 8 ± 1V | | |
| Contrast Minimum | TPE8 5 ± 0,3V TPE17 8 ± 1V TPE11 147 ± 10V TPE18 5 ± 0.3V | | |
| Volume Minimum | IPEII 147 ± 100 | | |
| CUT OFF / Ug2 Adjustment | Set Contrast on maximum, set Brightness on center, switch on | | |
| Receive a Greyscale signal. | AV mode. | | |
| 2. Degauss the tube externally. | Enter Service mode. Set Sub-Brightness to 31. Select Ug2 | | |
| 3. Set the TV into Service Mode 1. | Test. Press "+" and adjust screen Vr till sharp vertical line is | | |
| 4. Select Ug2 Test. | visible and LED switches off. Then reduce screen Vr till LED is | | |
| | just switched on (pin6 of connector E1 must be connected to | | |
| | GND). | | |

Note: To set up "white balance" first set up "Cut off" register to 8. Then set up "high-light" with the help of "drive" registers. Finish setting-up of "Low-light" with the help of "Cut-off" register.

Carry out setting-up of "white balance" in available TV systems (PAL, SECAM).

FACTORY SETTINGS

To return customer settings to factory settings and clear owner ID of all information input by the customer, enter Self-Check mode. Press the down (-/v) button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** button + on the remote control. To exit Self Check, switch off the TV set at the power button.

NOTE: Self Check should only be used when refurbishing the TV set and not during normal repair work.

OPTION 1 24 {OPTION 1 24}
OPTION 2 00 {OPTION 2 00}

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

• LUCI interface kit (Linked Utility Computer Interface)

Part number: TZS6EZ002

This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.

• VICI (Visual Interactive Computer Information)

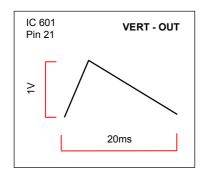
These C.D.'s contain multimedia documentation providing quick access to service information.

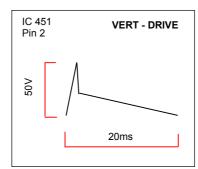
Part No. TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001

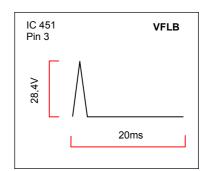
- 1. Service Manuals
- 2. Instruction Books
- 3. Technical Information
- TASMIN (Technically Advanced System for Multimedia Interactive Notes)

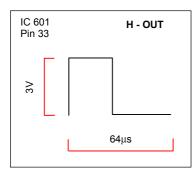
As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

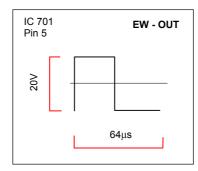
WAVEFORM PATTERN TABLE

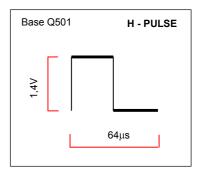


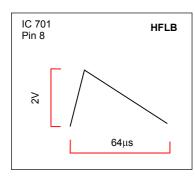


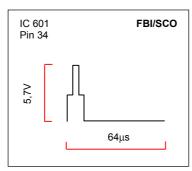


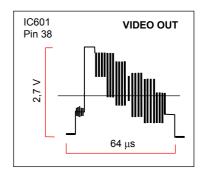


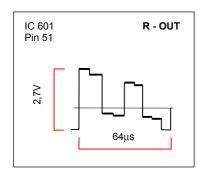


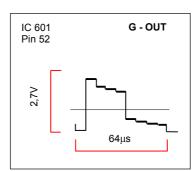


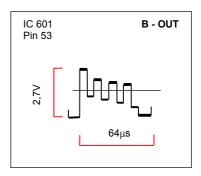


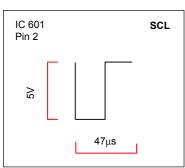












ALIGNMENT SETTINGS

To access Service Mode select program position 99 and set sharpness to minimum. Press "**MUTE**" button on remote control and at the same time press the "**V**" button on the customer controls at the front of the TV, this will place the TV set into Service Mode.

Press A / V buttons to step up / down through the functions.

Press + / - buttons to alter the function values.

Press "STR" button on the customer controls at the front of the TV after each adjustment has been made to store the required values.

To exit Service Mode press "N" button.

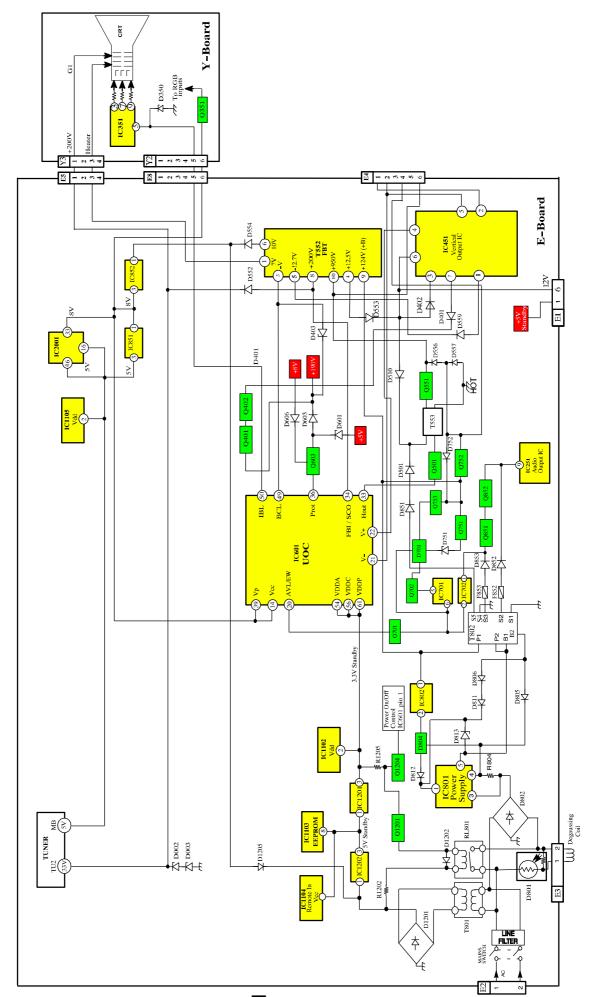
| Alignment Function | Setting indication Note: All setting values are approximate | Settings / Special features |
|-----------------------------|---|-----------------------------|
| 1. Cut off (Ug2) | LED On/Off | LED to be just On |
| 2. Vertical slope | V-SLO 32 | Optimum setting |
| 3. Vert. Amplitude | V-AMP 33 | Optimum setting. |
| 4. Vertical shift | V-POS 43 | Optimum setting. |
| 5. Horizontal shift | H-CTR 31 | Optimum setting. |
| 6. Horizontal parallelogram | H-PAR 34 | Optimum setting. |
| 7. Horizontal bow | H-BOW 31 | Optimum setting. |
| 8. R - Cut | R – CUT 8 | Optimum setting. |
| 9. G - Cut | G – CUT 8 | Optimum setting. |
| 10. R - Drive | R - DRV 31 | Optimum setting. |
| 11. G - Drive | G - DRV 31 | Optimum setting. |
| 12. B - Drive | B - DR 31 | Optimum setting. |
| 13. AGC | AGC 08 | Optimum setting. |
| 14. Sub Colour | S - COL 20 | Optimum setting. |
| 15. Sub Brightness | S - BRI 31 | Optimum setting. |
| 16. Horizontal Width | EW – WD 34 | Optimum setting. |
| 17. EW parabola | EW - PR 32 | Optimum setting. |
| 18. EW Upper corners | EW – UC 32 | Optimum setting. |
| 19. EW Lower corners | EW - LC 33 | Optimum setting. |
| 20. EW Trapezoid | EW - TP 36 | Optimum setting. |

Input remote code "FA" followed by key 5 (14 hex) or press "Status button" on remote control (numerical keys 0-6 to change value, TV/AV button to store on remote control):

| Option | Byte – 1 | Option Bytes Table | | | |
|---------|----------|--------------------|-----------|----------------|--|
| Bit No. | VALUE | FUNCTION | FUNCTIONS | | |
| 0 | 0 | French model | 0 1 | NO YES | |
| 1 | 0 | Irish model | 0 1 | NO YES | |
| 2 | 1 | NICAM enabled | 0 1 | NO YES | |
| 3 | 0 | A2 stereo enabled | 0 1 | NO YES | |
| 4 | 0 | Tuner manufacturer | 0 1 | MACO ALPS | |
| 5 | 1 | CRT | 0 1 | 21" 25",28" | |
| 6 | 0 | Q - link enabled | 0 1 | NO YES | |

| Option Byte - 2 | | Option Byte Table |
|-----------------|-------|-------------------|
| Bit No. | Value | Functions |
| 0 | 0 | |
| 1 | 0 | |
| 2 | 0 | |
| 3 | 0 | |
| 4 | 0 | |
| 5 | 0 | |
| 6 | 0 | |

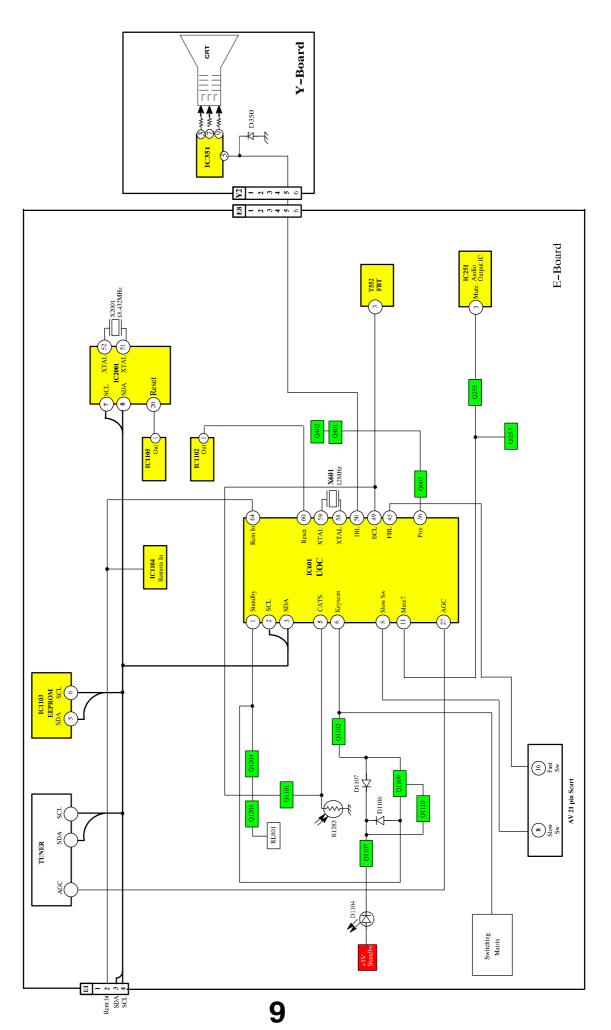
POWER SUPPLY & DEFLECTION BLOCK DIAGRAM



SP R IC2001 Multi-standard Sound Processor **VIDEO & STEREO AUDIO BLOCK DIAGRAM** Video Video out Rin (15) X602 SOUND TRAP (<u>=</u>) :<u>E</u> 6 Tin Bin AV 21 pin Scart C Jour Rigin (7) Rout TUNER JK3101

8

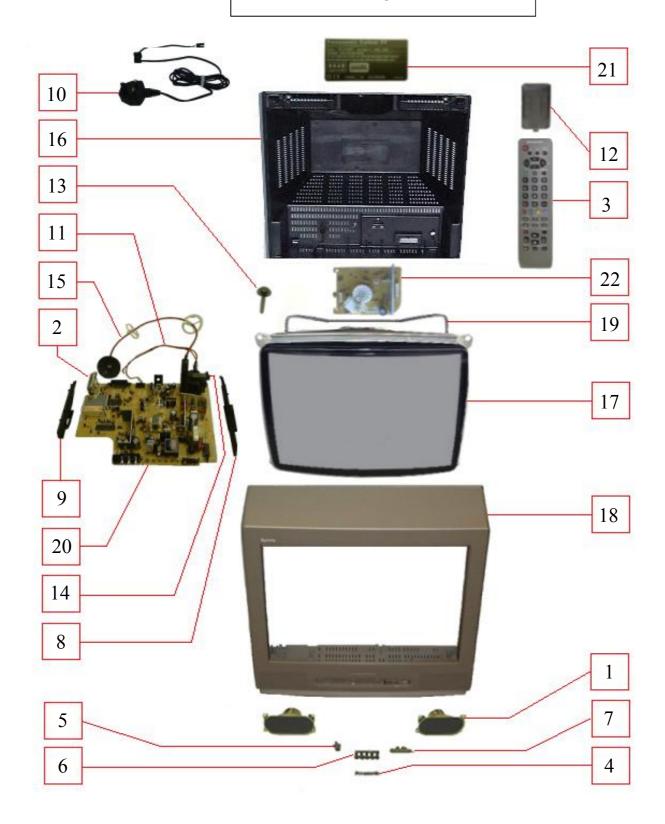
CONTROL BLOCK DIAGRAM



PARTS LOCATION

NOTE:

The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by A mark have special characteristics important for safety.

* When replacing any of these components, use only manufacturers specified parts. In case of ordering these spare parts, please always add the complete Model-Type number to your order.

| | Parts Number | Description | |
|--|--|--|----------|
| СОММ | ON PARTS | | |
| | | | |
| MECHA | NICAL PARTS | | |
| 1 | EASG12D552A2 | SPEAKER | |
| 2 | ENV87D12G3 | TUNER | |
| 3 | EUR511300 | REMOTE CONTROL | |
| 4 | TBM8E1928 | PANASONIC BADGE | |
| 5 | TBX8E071 | POWER BUTON | |
| 6 | TBX8E072 | 5-KEY BUTTON | |
| 7 | TKK8E037 | AV COVER | |
| 8 | TMZ8E001 | CHASSIS RAIL RIGHT | |
| 9 | TMZ8E002 | CHASSIS RAIL LEFT | |
| 10 | TSX8E0036 | POWER CORD | Z |
| 11 | TXFJTF01BMTG | FOCUS LEAD ASSY | Z |
| 12 | UR51EC904A | BATTERY COVER (REMOTE) | |
| 13 | VP17005-32 | CRT FIXING SCREW | |
| 14 | ZTFL84001A | F.B.T. | Z |
| 15 | ZTUZAE550A | ANODE LEAD | 7 |
| | | | |
| MISCEL | LANEOUS COMP | PONENTS | |
| D801 | 232266296706 | THERMISTOR | 4 |
| POE3 | TMW8E015-2 | LED HOLDER | |
| R1283 | P1201 | SENSOR | |
| S351 | TJSC00300 | CRT SOCKET | 4 |
| l.C.s | | | |
| | TD 4 7000 | ALIBIO OLITBUIT | |
| IC251 | TDA7263 | AUDIO OUTPUT | |
| | TDA/263 TDA6108JF | RGB OUTPUT | |
| IC351 | | | |
| IC351 IC451 | TDA6108JF | RGB OUTPUT | |
| IC351 IC451 IC601 | TDA6108JF LA7845N | RGB OUTPUT VERTICAL OUTPUT | |
| IC351 IC451 IC601 IC701 | TDA6108JF LA7845N TDA9364V301S | RGB OUTPUT VERTICAL OUTPUT UOC | |
| IC351 IC451 IC601 IC701 IC702 | TDA6108JF LA7845N TDA9364V301S TEA2031A | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION | |
| IC351 IC451 IC601 IC701 IC702 IC801 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC852 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC105 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1201 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1201 IC1202 IC2001 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T BA05T-M1 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR 5V REGULATOR | |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1202 IC2001 FUSES | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T BA05T-M1 MSP3415DPOB3 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR 5V REGULATOR AUDIO PROCESSOR | , |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1202 IC2001 FUSES F801 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T BA05T-M1 MSP3415DPOB3 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR 5V REGULATOR AUDIO PROCESSOR | 2 |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1202 IC2001 FUSES F801 F801-1 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T BA05T-M1 MSP3415DPOB3 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR 5V REGULATOR AUDIO PROCESSOR FUSE FUSE HOLDER | 1 |
| IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1202 IC2001 FUSES F801 F801-1 F801-2 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T BA05T-M1 MSP3415DPOB3 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR 5V REGULATOR AUDIO PROCESSOR FUSE FUSE HOLDER FUSE HOLDER | |
| IC251 IC351 IC351 IC451 IC601 IC701 IC702 IC801 IC802 IC851 IC852 IC1102 IC1104 IC1105 IC1201 IC1202 IC2001 FUSES F801 F801-1 F801-2 F851 F852 | TDA6108JF LA7845N TDA9364V301S TEA2031A AN78L20 STRF6523LF51 SE140NLF4 L78M05MRB BA08T-M3 MN13812-HTA RPM-6937 MN1381-R(TA) BA033T BA05T-M1 MSP3415DPOB3 | RGB OUTPUT VERTICAL OUTPUT UOC E/W CORRECTION 20V REGULATOR POWER SUPPLY ERROR IC 5V REGULATOR 8V REGULATOR RESET LED RECEIVER RESET 3.3V REGULATOR 5V REGULATOR AUDIO PROCESSOR FUSE FUSE HOLDER | <i>L</i> |

| Cct Ref | Parts Number | Description |
|---------|--------------|-----------------|
| DIODES | | |
| D002 | MTZJT-7716A | DIODE |
| D003 | MTZJT-7716A | DIODE |
| D260 | MA29W-ATA | DIODE |
| D261 | MTZJT-7739C | DIODE |
| D262 | MTZJT-7739C | DIODE |
| D350 | MTZJT-777.5B | DIODE |
| D351 | 1SR124-4AT82 | DIODE |
| D352 | 1SR124-4AT82 | DIODE |
| D353 | 1SR124-4AT82 | DIODE |
| D370 | MA165TA5 | DIODE |
| D371 | MA165TA5 | DIODE |
| D372 | MA165TA5 | DIODE |
| D401 | MA165TA5 | DIODE |
| D402 | ERA15-02V3 | DIODE |
| D403 | MTZJ33B | DIODE |
| D501 | 1SR124-4AT82 | DIODE |
| D502 | MTZJT-778.2A | DIODE |
| D510 | 1SR124-4AT82 | DIODE |
| D551 | MTZJT-778.2C | DIODE |
| D552 | EU02 | DIODE |
| D553 | TVSRU3AMLFB4 | DIODE |
| D554 | TVSRU3AMLFB4 | DIODE |
| D555 | MA165TA5 | DIODE |
| D556 | ERD07-15L7 | DIODE |
| D557 | RU3LFA1 | DIODE |
| D559 | EU02 | DIODE |
| D601 | MTZJT-775.1A | DIODE |
| D603 | MA165TA5 | DIODE |
| D606 | MA165TA5 | DIODE |
| D607 | BZT03C240113 | DIODE |
| D701 | SFH617A-20P6 | PHOTO COUPLER A |
| D701 | MA165TA5 | DIODE |
| D702 | | DIODE |
| | MA165TA5 | |
| D704 | MTZJT-775.6C | DIODE |
| D705 | MA29TA5 | DIODE |
| D706 | MTZJT-774.3B | DIODE |
| D751 | MA4051 | DIODE |
| D752 | AU02V0 | DIODE |
| D753 | MTZJT-7730D | DIODE |
| D754 | MTZJT-7727D | DIODE |
| D755 | MA165TA5 | DIODE |
| D802 | RBV4-08 | DIODE |
| D803 | AU01V0 | DIODE |
| D804 | SFH617A-20P6 | PHOTO COUPLER A |
| D805 | 1SR124-4AT82 | DIODE |
| D806 | 1SR124-4AT82 | DIODE |
| D808 | TVSRU3AMLFA5 | DIODE |
| D809 | R2KNLFA1 | DIODE |
| D810 | MA165TA5 | DIODE |
| D811 | 1SR124-4AT82 | DIODE |
| D812 | MA165TA5 | DIODE |
| | | |
| | | |

| Cot Pof | Parte Number | Description |
|-----------------|-----------------------------|--|
| Cct Ref D813 | Parts Number | Description DIODE |
| D814 | MTZJT-7720D MTZJT-775.6A | DIODE |
| D851 | TVSRU3AMLFA5 | DIODE |
| D852 | TVSRU3AMLFA5 | DIODE |
| D853 | 1SR124-4AT82 | DIODE |
| D1101 | MTZJT-776.2A | DIODE |
| D1104 | SLR56UR3FLF | LED |
| D1106 | MA165TA5 | DIODE |
| D1107 | MA165TA5 | DIODE |
| D1201 | TVSS1WBS20 | DIODE |
| D1202 | MA165TA5 | DIODE |
| D1205 | MA165TA5 | DIODE |
| D3101 | MTZJT-775.1A | DIODE |
| Q253 | BC857B | TRANSISTOR |
| Q255 | BC847B | TRANSISTOR |
| Q351 | BC857B | TRANSISTOR |
| Q401 | BC847B | TRANSISTOR |
| Q402 | BC847B | TRANSISTOR |
| Q501 | 2SD2398-M2 | TRANSISTOR |
| Q551 | BU4508AFRB | TRANSISTOR |
| Q601 | BC847B | TRANSISTOR |
| Q602 | BC847B | TRANSISTOR |
| Q603 | BC857B | TRANSISTOR |
| Q606 | BC847B BC857B | TRANSISTOR |
| Q701 Q702 | BC847B | TRANSISTOR TRANSISTOR |
| Q751 | BC847B | TRANSISTOR |
| Q752 | 2SK2538000LB | TRANSISTOR |
| Q753 | BC557B/126 | TRANSISTOR |
| Q851 | BC557B/126 | TRANSISTOR |
| Q852 | 2SA684R | TRANSISTOR |
| Q1101 | 2SD965-R | TRANSISTOR |
| Q1102 | BC847B | TRANSISTOR |
| Q1107 Q1109 | BC847B BC847B | TRANSISTOR TRANSISTOR |
| Q11109 Q1110 | BC847B | TRANSISTOR |
| Q1201 | BC847B | TRANSISTOR |
| Q1204 | BC847B | TRANSISTOR |
| Q2001 | BC857B | TRANSISTOR |
| Q2002 | BC857B | TRANSISTOR |
| Q2003 | BC847B | TRANSISTOR |
| Q2004 | BC847B | TRANSISTOR |
| Q3104 | 2SC1318-S | TRANSISTOR |
| | ORMERS | |
| T553 | ETH19Z192AZ | TRANSFORMER |
| T801 T802 | ETP35KAN619U 10653050-A | TRANSFORMER A |
| COILS | 1000000-A | TO THE PART OF THE |
| J116 | EXCELSA35T | COIL |
| L001 | TALV35VB100K | COIL |
| L502 | ELC08D682E | COIL |
| L601 | TALV35VB8R2K | COIL |
| L602 | TALV35VB100K | COIL |
| L604 | EXCELDR35V | COIL |
| L751 | ELC18B801L | COIL |
| L752 | ELC10D822E | COIL |
| L753 L802 | EXCELSA35T EXCELSA35T | COIL |
| L803 | EXCELDR35V | COIL |
| L851 | EXCELSA35T | COIL |
| L852 | EXCELSA35T | COIL |
| L853 | EXCELSA35T | COIL |
| L1101 | TALV35VB331K | COIL |
| L2001 | TALV35VB4R7K | COIL |
| | | |

| Cct Ref | Parts Number | Description | | | |
|---------|-------------------|--------------------|-------|----|-----|
| L2002 | TALV35VB4R7K | COIL | | | |
| L2004 | EXCELSA35T | COIL | | | |
| L2005 | TALV35VB6R8K | COIL | | | |
| L2006 | TALV35VB100K | COIL | | | |
| L3101 | TLT100K991R | COIL | | | |
| L3102 | TLT100K991R | COIL | | | |
| L3103 | EXCELSA35T | COIL | | | |
| L3104 | EXCELSA35T | COIL | | | |
| L3105 | TALV35VB100K | COIL | | | |
| L3107 | EXCELDR35V | COIL | | | |
| FILTERS | | | | | |
| L801 | ELF15N005A | LINE FILTER | | | |
| X602 | EFCT6R0MW5 | FILTER | | | |
| CRYSTA | LS | | | | |
| X103 | | CDVCTAL | | | |
| X601 | J3353K TSSA010 | CRYSTAL CRYSTAL | | | |
| | 4730007158 | CRYSTAL | | | |
| X2001 | | CRISIAL | | | |
| RESISTO | | | | | |
| JA1 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA2 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA3 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA4 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA5 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA6 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA7 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA9 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA10 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA11 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA12 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA15 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA16 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA18 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA19 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA20 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA21 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA27 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA28 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA29 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA30 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA31 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA32 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA33 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA34 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA36 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA37 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA38 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA39 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA40 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA41 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA42 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA43 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA44 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JA45 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JA46 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSE1 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE2 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE11 | ERJ8GEY0R00 | S.M.CARB | .125W | 5% | 0 Ω |
| JSE15 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE18 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE26 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE29 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE30 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE33 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE37 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| JSE43 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| | | | | | |
| | | | | | |

| Cct Ref | Parts Number | Description | | | |
|---------|--------------|-------------|-------|----------|---------|
| JYA | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R001 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R002 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R003 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R004 | ERG2SJS273 | METAL | 2W | 5% | 27ΚΩ 🛦 |
| R005 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R006 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27Κ Ω |
| R007 | ERJ6GEYJ302 | S.M.CARB | 0.1W | 5% | зк Ω |
| R008 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R110 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R241 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R251 | ERJ6GEYJ680 | S.M.CARB | 0.1W | 5% | 68 Ω |
| R252 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R254 | ERJ6GEYJ680 | S.M.CARB | 0.1W | 5% | 68 Ω |
| R256 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R257 | ERJ6GEYJ360 | S.M.CARB | 0.1W | 5% | 36 Ω |
| R258 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R259 | ERJ6GEYJ360 | S.M.CARB | 0.1W | 5% | 36 Ω |
| R260 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R261 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R262 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R263 | ERJ6GEYJ472 | S.M.CARB | 0.1W | 5% | 4K7 Ω |
| R264 | ERJ6GEYJ512 | S.M.CARB | 0.1W | 5% | 5K1 Ω |
| R265 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω |
| R266 | ERD25TJ2R2 | CARBON | 0.25W | 5% | 2R2 Ω |
| R268 | ERJ6GEYJ203 | S.M.CARB | 0.1W | 5% | 20K Ω |
| R280 | ERJ6GEYJ204 | S.M.CARB | 0.1W | 5% | 200K Ω |
| R281 | ERJ6GEYJ204 | S.M.CARB | 0.1W | 5% | 200K Ω |
| R351 | ERDS1TJ182 | CARBON | 0.5W | 10% | 1K8 Ω |
| R352 | ERDS1TJ182 | CARBON | 0.5W | 10% | 1K8 Ω |
| R353 | ERDS1TJ182 | CARBON | 0.5W | 10% | 1K8 Ω |
| R357 | ERDS1TJ102 | CARBON | 0.5W | 5% | 1K Ω |
| R358 | ERDS1TJ102 | CARBON | 0.5W | 5% | 1K Ω |
| R359 | ERDS1TJ102 | CARBON | 0.5W | 5% | 1K Ω |
| R360 | ERG2SJS470H | METAL | 2W | 5% | 47 Ω |
| R370 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R371 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R401 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω |
| R402 | ERJ6GEYJ332 | S.M.CARB | 0.1W | 5% | 3K3 Ω |
| R403 | ERJ6ENF2701 | S.M.CARB | 0.1W | 5% | 27 Ω |
| R404 | ERJ6ENF2701 | S.M.CARB | 0.1W | 5% | 27 Ω |
| R405 | ERJ6ENF2701 | S.M.CARB | 0.1W | 5% | 27 Ω |
| R406 | ERJ6GEYJ1R0 | S.M.CARB | 0.1W | 5% | 1 Ω |
| R407 | ERDS1TJ471 | CARBON | 0.5W | 5% | 470 Ω |
| R408 | ERDS1TJ471 | CARBON | 0.5W | 5% | 470 Ω |
| R409 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω |
| R410 | ERJ6GEYJ683 | S.M.CARB | 0.1W | 5% | 68K Ω |
| R411 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R415 | ERJ6ENF2701 | S.M.CARB | 0.1W | 5% | 27 Ω |
| R501 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R502 | ERD25TJ272F | CARBON | 0.25W | 5% | 2Κ7 Ω |
| R503 | ERG3SJS220H | METAL | 3W | 5% | 22 Ω |
| R504 | ERG2ANJP471H | METAL | 2W | 5% | 470 Ω |
| R507 | ERJ6GEYJ122 | S.M.CARB | 0.1W | 5% | 1K2 Ω |
| R553 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% 5% | 27K Ω |
| R556 | ERG1SJ183 | METAL | 1W | 5% | 18K Ω |
| R557 | ERDS1TJ184 | CARBON | 0.5W | 5% | 180 Ω |
| R558 | ERD25TJ183 | CARBON | 0.25W | 5% | 18K Ω |
| R560 | ERQ1CJP102 | FUSIBLE | 1W | 5% | 1K Ω Δ |
| R561 | ERQ12AJ101 | FUSIBLE | 0.5W | 5% | 100 Ω 🛦 |
| R601 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% 5% | 15K Ω |
| R602 | ERJ6ENF3001 | S.M.CARB | 0.5W | 5% | 30 Ω |
| R603 | ERJ6GEYJ393 | S.M.CARB | 0.1W | 5% | 39K Ω |
| R604 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% 5% | 100 Ω |
| R605 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% 5% | 100 Ω |
| R606 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 0% | 100 Ω |
| | | | | | |

| Cct Ref | Parts Number | Description | | | |
|--------------|-----------------------------|----------------------|--------------|----------|-------------------|
| R607 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R608 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R609 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R610 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R611 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R612 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R613 | ERJ6GEYJ391 | S.M.CARB | 0.1W | 5% | 390 Ω |
| R614 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R615 R616 | ERJ6GEYJ470 ERJ6GEYJ221 | S.M.CARB S.M.CARB | 0.1W 0.1W | 5% 5% | 47 Ω 220 Ω |
| R617 | ERJ6GEYJ181 | S.M.CARB | 0.1W | 5% 5% | 180 Ω |
| R618 | ERJ6GEYJ470 | S.M.CARB | 0.1W | 5% | 47 Ω |
| R619 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R620 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R621 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R622 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R623 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R624 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R625 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R626 | ERJ6GEYJ474 | S.M.CARB | 0.1W | 5% | 470K Ω |
| R627 | ERJ6GEYJ474 | S.M.CARB | 0.1W | 5% | 470K Ω |
| R628 | ERDS1TJ684 | CARBON | 0.5W | 5% | 680K Ω |
| R629 | ERJ6GEYJ154 | S.M.CARB | 0.1W | 5% | 150K Ω |
| R630 | ERJ6ENF1802 | S.M.CARB | 0.1W | 5% | 1K8 Ω |
| R631 | ERO50PKF5603 ERJ6GEYJ101 | METAL S.M.CARB | 0.5W 0.1W | 1% 5% | 560K Ω 🛦 100 Ω |
| R632 R633 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% 5% | 100 Ω |
| R635 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R638 | ERJ6GEYJ151 | S.M.CARB | 0.1W | 5% | 150 Ω |
| R639 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R646 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω |
| R701 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1ΚΩ |
| R702 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10Κ Ω |
| R703 | ERJ6GEYJ392 | S.M.CARB | 0.1W | 5% | 3K9 Ω |
| R704 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5K6 Ω |
| R705 | ERDS1TJ821 | CARBON | 0.5W | 5% | 820 Ω |
| R706 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω |
| R707 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R708 | ERJ6GEYJ273 | S.M.CARB | 0.1W | 5% | 27ΚΩ |
| R709 R710 | ERJ6GEYJ393 | S.M.CARB S.M.CARB | 0.1W | 5% | 39K Ω |
| R711 | ERJ6GEYJ393 ERJ6GEYJ103 | S.M.CARB | 0.1W 0.1W | 5% 5% | 39K Ω 10K Ω |
| R711 | ERJ6GEYJ561 | S.M.CARB | 0.1W | 5% | 560 Ω |
| R713 | ERG1SJ101 | METAL | 1W | 5% | 100 Ω |
| R715 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R716 | ERJ6GEYJ432 | S.M.CARB | 0.1W | 5% | 4K3 Ω |
| R717 | ERJ6GEYJ392 | S.M.CARB | 0.1W | 5% | 3K9 Ω |
| R751 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R752 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2Κ2 Ω |
| R753 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1 K 5 Ω |
| R754 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R756 | ERDS1TJ472 | CARBON | 0.5W | 5% | 4K7 Ω |
| R757 | ERJ6GEYJ680 | S.M.CARB | 0.1W | 5% | 68 Ω |
| R758 | ERJ6GEYJ392 | S.M.CARB | 0.1W | 5% | 3K9 Ω |
| R759 | ERQ12HJ8R2 | FUSIBLE | 0.5W | 5% | 8R2 Ω 🛦 |
| R760 R761 | ERJ6GEYJ101 ERG1SJ563 | S.M.CARB METAL | 0.1W 1W | 5% 5% | 100 Ω 56K Ω |
| R762 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1ΚΩ |
| R763 | ERG3FJ561H | METAL | 3W | 5% | 560 Ω |
| R802 | ERC12ZGK335V | SOLID | 0.5W | 10% | 3M3 Ω A |
| R803 | ERF7ZK2R7 | WOUND | 7W | 20% | 2R7 Ω 🛦 |
| R804 | ERG2ANJP104H | METAL | 2W | 5% | 100K Ω |
| R805 | ERDS1TJ103 | CARBON | 0.5W | 5% | 10K Ω |
| R806 | ERDS1TJ332 | CARBON | 0.5W | 5% | 3 K 3 Ω |
| R809 | ERW2PKR33 | WOUND | 2W | 20% | R33 Ω 🛦 |
| R810 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1 K 5 Ω |
| | | | | | |

| Cct Ref | Parts Number | Description | | | |
|----------------|----------------------------|----------------------|--------------|----------|----------------|
| | | | 0.5144 | | 40.0 Å |
| R811 | ERQ12HJ100 | FUSIBLE | 0.5W | 5% | 10 Ω Δ |
| R812 R813 | ERD75TAJ825 | CARBON | 0.75W | 5% | 8M2 Ω Δ |
| R814 | ERDS1TJ103 ERDS1TJ330 | CARBON CARBON | 0.5W 0.5W | 5% 5% | 10K Ω 33 Ω |
| R815 | ERDS1TJ681 | CARBON | 0.5W | 5% 5% | 680 Ω |
| R851 | ERG2SJS220H | METAL | 2W | 5% | 220 Ω |
| R852 | ERG2SJS130H | METAL | 2W | 5% | 13 Ω |
| R853 | ERG3FJ151 | METAL | 3W | 5% | 150 Ω 🛦 |
| R854 | ERG3FJ151 | METAL | 3W | 5% | 150 Ω Δ |
| R855 | ERDS1TJ4R7 | CARBON | 0.5W | 5% | 4R7 Ω |
| R856 | ERD25TJ101 | CARBON | 0.25W | 5% | 100 Ω |
| R857 | ERD25TJ202 | CARBON | 0.25W | 5% | 2Κ Ω |
| R858 | ERDS1TJ103 | CARBON | 0.5W | 5% | 10K Ω |
| R1101 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1102 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1104 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5Κ6 Ω |
| R1105 | ERJ6GEYJ562 | S.M.CARB | 0.1W | 5% | 5 K 6 Ω |
| R1106 | ERJ6GEYJ184 | S.M.CARB | 0.1W | 5% | 180K Ω |
| R1107 | ERJ6GEYJ563 | S.M.CARB | 0.1W | 5% | 56K Ω |
| R1108 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1110 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1Κ Ω |
| R1112 | ERJ6GEYJ362 | S.M. CAR | 0.1W | 5% | 3K6 Ω |
| R1113 | ERJ6GEYJ242 | S.M.CARB | 0.1W | 5% | 2Κ4 Ω |
| R1114 | ERJ6GEYJ432 | S.M.CARB | 0.1W | 5% | 4K3 Ω |
| R1115 | ERJ6GEYJ822 | S.M.CARB | 0.1W | 5% | 8K2 Ω |
| R1116 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω |
| R1117 | ERJ6GEYJ821 | S.M.CARB | 0.1W | 5% | 820 Ω |
| R1118 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1119 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1120 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1121 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1122 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1125 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1127 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R1135 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R1140 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1141 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R1144 | ERJ6GEYJ183 | S.M.CARB | 0.1W | 5% | 18K Ω |
| R1145 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K Ω |
| R1146 R1147 | ERJ6GEYJ473 | S.M.CARB | 0.1W | 5% | 47K Ω |
| | ERJ6GEYJ184 | S.M.CARB | 0.1W | 5% | 180K Ω |
| R1148 R1149 | ERJ6GEYJ103 ERJ6GEYJ103 | S.M.CARB S.M.CARB | 0.1W 0.1W | 5% 5% | 10K Ω 10K Ω |
| R1150 | ERJ6GEYJ103 | S.M.CARB | 0.1W | | 10K Ω |
| R1202 | ERDS1TJ680 | CARBON | 0.1VV | 5% | 68 Ω |
| R1205 | ERJ6GEYJ152 | S.M.CARB | 0.1W | 5% | 1K5 Ω |
| R1206 | 2-640463-3 | METAL | 2W | 5% | 22K Ω |
| R1209 | ERDS1TJ560 | CARBON | 0.5W | 5% | 56 Ω |
| R2001 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2002 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2003 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2Κ2 Ω |
| R2004 | ERJ6GEYJ222 | S.M.CARB | 0.1W | 5% | 2K2 Ω |
| R2007 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| R2008 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2009 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2010 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2011 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R2012 | ERJ6GEYJ153 | S.M.CARB | 0.1W | 5% | 15K Ω |
| R2013 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2014 | ERJ6GEYJ471 | S.M.CARB | 0.1W | 5% | 470 Ω |
| R2015 | ERJ6GEYJ102 | S.M.CARB | 0.1W | 5% | 1K Ω |
| R2016 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2017 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω |
| R2018 | ERJ6GEYJ681 | S.M.CARB | 0.1W | 5% | 680 Ω |
| R2020 | ERJ6GEYJ202 | S.M.CARB | 0.1W | 5% | 2K Ω |
| R2021 | ERJ6GEYJ103 | S.M.CARB | 0.1W | 5% | 10K Ω |
| | | | | | |

| Cct Ref | Parts Number | Description | | | | |
|--------------|----------------------------|-------------------|---------------------|----|----------------|-------------------------|
| R2022 | ERJ6GEYJ303 | S.M.CARB | 0.1W | 5% | 30K Ω | 2 |
| R3106 | ERJ6GEYJ101 | S.M.CARB | 0.1W | 5% | 100 Ω | 2 |
| R3111 | ERDS1TJ101 | CARBON | 0.5W | 5% | 100 Ω | 2 |
| R3115 | ERJ6GEYJ151 | S.M.CARB | 0.1W | 5% | 150 Ω | 2 |
| R3116 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 C | 2 |
| R3117 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 C | 2 |
| R3118 | ERJ6GEYJ750 | S.M.CARB | 0.1W | 5% | 75 Ω | 2 |
| R3120 | ERDS1TJ750 | CARBON | 0.5W | 5% | 75 Ω | 2 |
| R3121 | ERJ6GEYJ334 | S.M.CARB | 0.1W | 5% | 330K Ω | 2 |
| R3122 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | 2 |
| R3123 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | ο Ω | 2 |
| R3124 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | 2 |
| R3125 | ERJ6GEYJ104 | S.M.CARB | 0.1W | 5% | 100K 🖸 | - 1 |
| R3129 | ERDS1TJ750 | CARBON | 0.5W | 5% | 75 <u>C</u> | - 1 |
| R3130 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | 0 Ω | - 1 |
| R3131 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | Ω 0 | - 1 |
| R3132 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω | - 1 |
| R3133 | ERJ6GEYJ221 | S.M.CARB | 0.1W | 5% | 220 Ω | - 1 |
| R3134 | ERJ6GEY0R00 | S.M.CARB | 0.1W | 5% | Ω 0 | 2 |
| CAPACIT | TORS | | | | | |
| C001 | ECEA1CU100 | ELECT | 16V | | 10µF | |
| C002 | ECJ2VF1H104Z | ELECT | 350V | | 100n F | |
| C005 | ECJ2VF1H104Z | ELECT | 350V | | 100nF | |
| C006 | ECEA1HU101 | ELECT | 50V | | 100µF | |
| C007 | ECA1HM330B | ELECT | 50V | | 33µF | |
| C117 | ECJ2VB1H103K | ELECT | 350V | | 10nF | |
| C118 | ECJ2VB1H103K | ELECT | 350V | | 10nF | |
| C251 | ECEA1HU101 | ELECT | 50 V | | 100µF | |
| C252 | ECJ2VB1H223K | ELECT | 350V | | 22nF | |
| C256 | ECJ2VB1H223K | ELECT | 350V | | 22nF | |
| C257 | ECA1CHG102B | ELECT | 10V | | 1000µF | |
| C258 | ECEA1HU101 | ELECT | 50V | | 100µF | |
| C260 | ECA1VM102GB | ELECT | 35V | | 1nF | |
| C261 | ECA1VM102GB | ELECT | 35V | | 1nF | |
| C264 | ECA1HHG222E | ELECT | 50V | | 2200µF | |
| C267 | ECJ2YB1H104K | ELECT | 350V | | 100nF | |
| C268 | ECJ2YB1H104K | ELECT | 350V | | 100nF | |
| C270 | ECJ2YB1H104K | ELECT | 350V | | 100nF | |
| C351 | ECA2EM010B | ELECT | 250V | | 1µF | |
| C352 | ECKC2H152J ECJ2VF1H104Z | CERAMIC | 500V | | 1.5nF | <u> </u> |
| C354 C356 | | ELECT S.M. CAP | 350V | | 100nF | |
| C357 | ECUV1H102ZFX ECKC3D152J | CERAMIC | 50V 2 K V | | 1nF 1.5nF | |
| C358 | ECUV1H561KBX | S.M. CAP | 50V | | 560pF | <u> </u> |
| C405 | ECUV1H100CCX | S.M. CAP | 50V | | 10pF | |
| C405 | ECA1HHG101B | ELECT | 50 V | | 100µF | |
| C410 | ECEA1HU101 | ELECT | 50V | | 100μΓ 100μΓ | |
| C502 | ECQM1273KZW | FILM | 100V | | 27nF | |
| C502 | ECUV1H222JCX | S.M. CAP | 50V | | 2.2nF | |
| C551 | ECUV1H220JCX | S.M. CAP | 50V | | 2.2m 22pF | |
| C554 | ECA1VM471GB | ELECT | 35V | | 470µF | |
| C555 | ECKC2H471J | CERAMIC | 500V | | 470pF | \triangle |
| C556 | ECKC2H471J | CERAMIC | 500V | | 470pF | \triangle |
| C557 | ECKC2H331J | CERAMIC | 500V | | 330pF | \triangle |
| C558 | ECA2CM3R3B | ELECT | 160V | | 3.3µF | - |
| C560 | ECQF4273JZH | FILM | 400V | | 27nF | \triangle |
| C562 | ECA2GHG2R2B | ELECT | 400V | | 27nF | _ |
| C564 | ECA1VM471GB | ELECT | 35V | | 470µF | |
| C565 | ECKC2H471J | CERAMIC | 500V | | 470pF | \triangle |
| C566 | ECA1VM471GB | ELECT | 35V | | 470µF | |
| C567 | ECKC3D681J | CERAMIC | 2KV | | 680pF | \triangle |
| C570 | ECKC2H152J | CERAMIC | 500V | | 1.5n F | $\overline{\mathbb{A}}$ |
| C601 | ECA1CM102B | ELECT | 16V | | 1000µF | |
| C602 | ECJ2YB1H104K | ELECT | 350V | | 100nF | |
| C603 | ECJ2VB1H472K | ELECT | 350V | | 4.7nF | |
| C606 | ECUV1H222JCX | S.M. CAP | 50V | | 2.2nF | |
| | | | | | | |
| | | | | | | |

| Cat Daf | Danta Niverbau | Dagarintian | | | |
|----------------|------------------------------|-------------------|--------------|------------------------|---|
| Cct Ref | Parts Number | Description | | | |
| C609 | ECJ2YB1H104K | ELECT | 350V | 100nF | |
| C610 | ECJ2VB1H103K | ELECT | 350V | 10n F | |
| C612 | ECJ2VB1H472K | ELECT | 350V | 4.7nF | |
| C613 | ECJ2VB1H472K | ELECT | 350V | 4.7nF | |
| C618 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C620 | ECUV1H470GCG | S.M. CAP | 50V | 47pF | |
| C621 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C622 | ECUV1H101JCX | S.M. CAP | 50V | 100pF | |
| C624 | ECQB1H223K | FILM | 50V | 22nF | |
| C625 | ECQB1H223K | FILM | 50V | 22nF | |
| C626 | ECQB1H223K | FILM | 50V | 22nF | |
| C627 C628 | ECJ2YB1H473K | ELECT | 350V | 47nF | |
| | ECJ2YB1H473K | ELECT | 350V | 47nF | |
| C629 C630 | ECJ2YB1H104K ECJ2VF1H104Z | ELECT ELECT | 350V 350V | 100nF 100nF | |
| C631 | ECEA1HU101 | ELECT | 50V | 100HF | |
| C632 | ECEA1HU101 | ELECT | 50V | 100μΓ 100μ Γ | |
| C633 | ECJ2VF1H104Z | ELECT | 350V | 100pT | |
| C634 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C635 | ECJ2VF1H104Z | ELECT | 350V | 100pT | |
| C636 | ECA1CM102B | ELECT | 16V | 1000µF | |
| C637 | ECEA1HU101 | ELECT | 50V | 1000µF | |
| C638 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C639 | ECA1HM220GB | ELECT | 50V | 22µF | |
| C646 | ECJ2YB1H104K | ELECT | 350V | 100nF | |
| C650 | ECUV1H390JCX | S.M. CAP | 50V | 39pF | |
| C651 | ECUV1H390JCX | S.M. CAP | 50V | 39pF | |
| C652 | ECUV1H390JCX | S.M. CAP | 50V | 39pF | |
| C653 | ECJ2YB1H683K | ELECT | | 68nF | |
| C654 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C702 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C703 | ECA1HHG100B | ELECT | 50V | 10µF | |
| C704 | ECQB1H122J | FILM | 50V | 1.2nF | |
| C705 | ECQB1H223K | FILM | 50V | 22n F | |
| C708 | ECA1HM220GB | ELECT | 50V | 22µF | |
| C752 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C753 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C754 | ECA1JM101B | ELECT | 63V | 100μF | |
| C755 | ECKC2H471J | CERAMIC | 500V | 470pF | A |
| C802 | ECKWNA332ME | CERAMIC | 250V | 3.3nF | Δ |
| C803 | ECKWNA152MEC | CERAMIC | 250V | 1.5nF | A |
| C805 | ECQE2A474MWB | FILM | 250V | 470n F | A |
| C806 | ECKC2H472J | CERAMIC | 500 V | 4.7nF | Δ |
| C807 | ECKC2H472J | CERAMIC | 500 V | 4.7nF | Δ |
| C808 | ECKC2H472J | CERAMIC | 500V | 4.7n F | Δ |
| C810 | ECA1HHG101B | ELECT | 50 V | 100μ F | |
| C811 | ECKC1H471J | CERAMIC | 50 V | 470pF | |
| C812 | ECKC3A182J | CERAMIC | 1KV | 1800pF | A |
| C814 | ECKC3D102J | CERAMIC | 2KV | 1nF | Δ |
| C815 | ECA2CHG221E | ELECT | 160V | 220µF | |
| C816 | ECKC2H472J | CERAMIC | 500V | 4.7nF | A |
| C818 | ECQB1H683K | FILM | 50V | 68nF | |
| C854 | ECKC2H471J | CERAMIC | 500V | 470pF | Δ |
| C855 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C856 | ECA1VM471GB | ELECT | 35V | 470µF | |
| C858 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C859 | ECA1HHG471E | ELECT | 50V | 470µF | |
| C860 | ECA1VHG331B | ELECT | 35V | 330pF | |
| C1101 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C1102 | ECA1CM220GB | ELECT S.M. CAD | 16V | 22µF | |
| C1103 | ECUV1H331JCX | S.M. CAP | 50V | 330pF | |
| C1104 | ECEA1HU101 | ELECT | 50V | 100μF 100pF | |
| C1105 C1203 | ECJ2VF1H104Z | ELECT | 350V 50V | 100nF | |
| C1203 | ECEA1HU101 ECEA1HU101 | ELECT | 50V 50V | 100μF | |
| C1204 | ECJ2VF1C334Z | ELECT ELECT | 350V | 100µF 330nF | |
| 01200 | L032 VF 10334Z | LLLOI | 550 V | JJUIT | |
| | | | | | |

| Cct Ref | Parts Number | Descriptio | n | | |
|----------------|------------------------------|----------------------|-------------|----------------|--------------|
| C1210 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C2001 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C2002 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C2003 | ECEA1HU101 | ELECT | 50 V | 100µF | |
| C2004 | ECJ2VF1H104Z | ELECT | 350V | 100n F | |
| C2005 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2006 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2007 C2008 | ECUV1H102JCX ECUV1H010CCX | S.M. CAP S.M. CAP | 50V 50V | 1nF | |
| C2006 C2009 | ECUV1H010CCX | S.M. CAP | 50V 50V | 1pF 1pF | |
| C2003 | ECUV1H470JCX | S.M. CAP | 50V | 47pF | |
| C2013 | ECUV1H070DTX | S.M. CAP | 50V | 70pF | |
| C2014 | ECUV1H560GCG | S.M. CAP | 50V | 56pF | |
| C2015 | ECUV1H220JCX | S.M. CAP | 50V | 22pF | |
| C2016 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2017 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2018 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C2019 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C2022 C2023 | ECUV1H221JCX ECUV1H221JCX | S.M. CAP S.M. CAP | 50V 50V | 220pF 220pF | |
| C2023 | ECJ2VF1H104Z | S.M. CAP ELECT | 350V | 220pF 100nF | |
| C2024 C2026 | ECEA1CU100 | ELECT | 16V | 10µF | |
| C2027 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C2031 | ECUV1H102JCX | S.M. CAP | 50V | 1nF | |
| C2032 | ECUV1H102JCX | S.M. CAP | 50 V | 1nF | |
| C2033 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C2036 | ECUV1H471JCX | S.M. CAP | 50V | 470pF | |
| C2037 | ECUV1H221JCX | S.M. CAP | 50V | 220pF | |
| C2038 | ECJ2VB1H103K | ELECT | 350V | 10nF | |
| C2039 C2040 | ECJ2VF1H104Z ECEA1HU101 | ELECT ELECT | 350V 50V | 100nF 100μF | |
| C2040 C2041 | ECUV1H100DCX | S.M. CAP | 50V | 100µF | |
| C2041 | ECUV1H100DCX | S.M. CAP | 50V | 10pF | |
| C3103 | ECEA1HU101 | ELECT | 50V | 100µF | |
| C3104 | ECJ2VF1H104Z | ELECT | 350V | 100nF | |
| C3109 | ECUV1H222KBX | S.M. CAP | 50 V | 2.2n F | |
| C3110 | ECUV1H222KBX | S.M. CAP | 50 V | 2.2n F | |
| C3111 | ECUV1H222KBX | S.M. CAP | 50V | 2.2nF | |
| C3112 | ECUV1H222KBX | S.M. CAP | 50V | 2.2nF | |
| C3113 C3114 | ECUV1H222KBX ECUV1H222KBX | S.M. CAP S.M. CAP | 50V 50V | 2.2nF 2.2nF | |
| C3114 C3116 | ECUV1H561KBX | S.M. CAP | 50V 50V | 560pF | |
| C3117 | ECUV1H561KBX | S.M. CAP | 50V | 560pF | |
| TERMIN | ALS AND LINKS | | | | |
| JK3101 | TJB16673 | A.V. TERMI | NAI | | |
| JK3101 | TJB8E011 | SCART SO | | | |
| SWITCH | | | | | |
| S801 | ESB92S11B | SWITCH | | | A |
| S1101 | EVQ21405R | SWITCH | | | 47 |
| S1102 | EVQ21405R | SWITCH | | | |
| S1103 | EVQ21405R | SWITCH | | | |
| S1104 | EVQ21405R | SWITCH | | | |
| S1105 | EVQ21405R | SWITCH | | | |
| RELAYS | | | | | |
| RL801 | DJ5D1-0M | RELAY | | | A |
| DIFFER | RENCES FOR | MODEL - | TX-25CK1 | | |
| MECHAN | IICAL PARTS | | | | |
| 16 | TKU8E00520 | BACK COV | ER | | \mathbb{A} |
| 17 | A59EEQ15X97 | C.R.T. | | | A |
| 18 | TKY8E450 | CABINET | | | - |
| 19 | TLK8E05162 | DEGAUSS | COIL | | A |
| 20 | TNP8EE011CR | E P.C.B. | | | A |
| 21 | TBM8E2018 | MODEL LAI | BEL | | |
| | | | | | |

| Cct Ref | Parts Number | Description | | | | |
|--------------|---------------------------|-----------------------|-----------------|----------|----------------|-------------|
| 22 | TNP8EY015AM | Y P.C.B. | | | | Δ |
| | LANEOUS COMP | | | | | _ |
| | TKP8E1291 | LIGHT TUBE | | | | |
| | TKP8E1292 | LED PANEL | | | | |
| | TPC8E4808 | OUTER CAR | TON | | | |
| | TPD8E708 | TOP CUSHIC | N | | | |
| | TPD8E709 | BOTTOM CU | SHION | | | |
| | TS2800 | TV STAND | | | | |
| | UM-3DJ-2P | BATTERY PA | ACK | | | |
| INSTRU | CTION BOOKS | | | | | |
| | TQB8E2751U-4 | ENGLISH | | | | Δ |
| I.C.s | | | | | | |
| IC1103 | XPK2-1BAZ | EAROM | | | | |
| COILS | | | | | | |
| L501 | ELH5L4119 | COIL | | | | |
| RESIST | ORS | | | | | |
| R416 | ERDS1TJ1R0 | CARBON | 0.5W | 5% | 1 Ω | |
| R417 | ERDS1TJ1R0 | CARBON | 0.5W | 5% | 1 Ω | |
| R559 | ERQ1ZJP1R5S | RESISTOR | 1W | 5% | 1R5 Ω | |
| CAPACI | TORS | | | | | |
| C559 | ECWH20103JVB | FILM | 2KV | 25L | 10nF | |
| C563 | ECWF2334JBB | FILM | 250V | | 330nF | |
| C568 | ECKW3D122JBR | CERAMIC | 2KV | | 1.2nF | |
| C751 | ECWF2684JBB | FILM | 250V | 25L | 680nF | |
| DIFFE | RENCES FOR | MODEL T | X_2Ω | :K1 | | |
| DII I EF | LITOLO I OR | INCULL I | ., <u>~</u> ∠∪(| · 1 \ 1 | | |
| | | | | | | |
| MECHAI | NICAL PARTS | | | | | |
| 16 | TKU8E00530 | BACK COVE | R | | | Δ |
| 17 | A66ECF50X04 | C.R.T. | | | | Δ |
| 18 | TKY8E460 | CABINET | OII. | | | Δ |
| 19 20 | TLK8E05140 TNP8EE011CS | DEGAUSS C E P.C.B. | OIL | | | \triangle |
| 20 | TBM8E2016 | MODEL LABI | FI . | | | <u> </u> |
| 22 | TNP8EY015AN | Y P.C.B. | | | | A |
| | LANEOUS COMP | | | | | - |
| | TKP8E1291 | LIGHT TUBE | | | | |
| | TKP8E1291 | LED PANEL | | | | |
| | TPC8E4809 | OUTER CAR | TON | | | |
| | TPD8E710 | TOP CUSHIC | | | | |
| | TPD8E711 | воттом си | SHION | | | |
| | TS2800 | TV STAND | | | | |
| | UM-3DJ-2P | BATTERY PA | ACK | | | |
| INSTRU | CTION BOOKS | | | | | |
| | TQB8E2751U-4 | ENGLISH | | | | Δ |
| I.C.s | | | | | | |
| IC1103 | XPK2-4CAZ | EAROM | | | | |
| COILS | | | | | | |
| L501 | ELH5L4105 | COIL | | | | |
| RESIST | | JUIL | | | | |
| | | CARRON | 0 5141 | E0/ | 4D5.0 | |
| R416 R417 | ERDS1TJ1R5 ERDS1TJ1R2 | CARBON CARBON | 0.5W 0.5W | 5% 5% | 1R5 Ω 1R2 Ω | |
| R417 | ERDS1TJ1R2 | CARBON | 0.5W | 5% | 1R2 Ω | |
| R559 | ERQ1ABJP3R0S | METAL | 1W | 5% | 3 Ω | |
| CAPACI | | ··= ·· ·= | | - / 0 | | |
| C559 | ECWH20123JVB | FILM | 2kV | | 12nE | |
| C559 C563 | ECWF2394Jbb | FILM | 250V | | 12nF 390nF | |
| C751 | ECWF2334JBB | FILM | 250V | | 330nF | |
| | | | | | | |
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| Cct Ref | Parts Number | Description |
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SCHEMATIC DIAGRAMS FOR MODELS

TX-28CK1, TX-25CK1

(Z8 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components, use only manufacturers' specified parts.

NOTE

1. RESISTOR

All resistors are carbon $\frac{1}{4}$ W resistor, unless marked otherwise. Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)

CAPACITORS

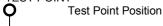
All capacitors are ceramic 50V unless marked otherwise.

Unit of capacitance is uF unless otherwise stated.

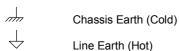
COIL

Unit of inductance is μH , unless otherwise stated.

4. TEST POINT



5. EARTH SYMBOL

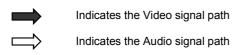


6. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter.

Measurement conditions are as follows:
Power source a.c. 220V-240V, 50Hz
Receiving Signal Colour Bar signal (RF)
All customer controls Maximum position

7.



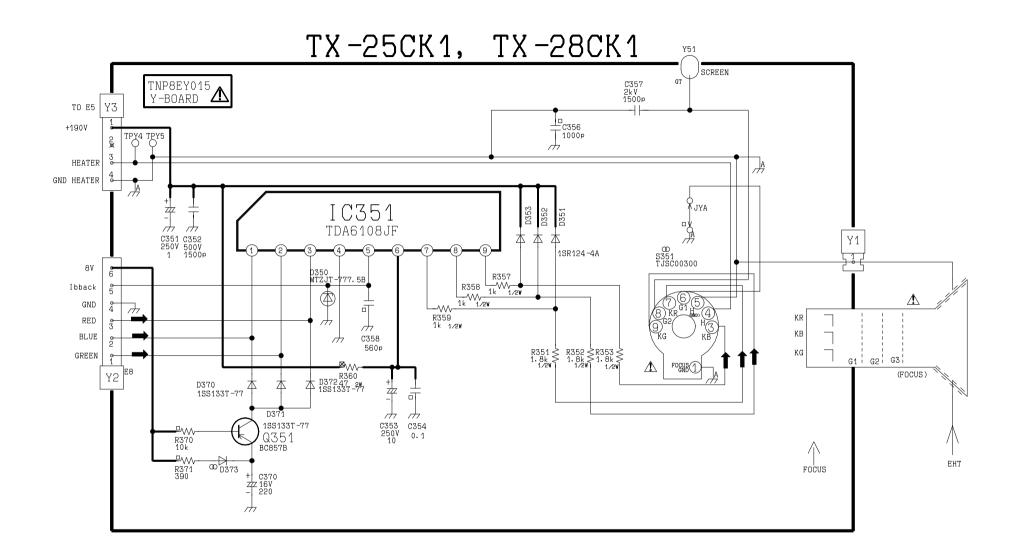
These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

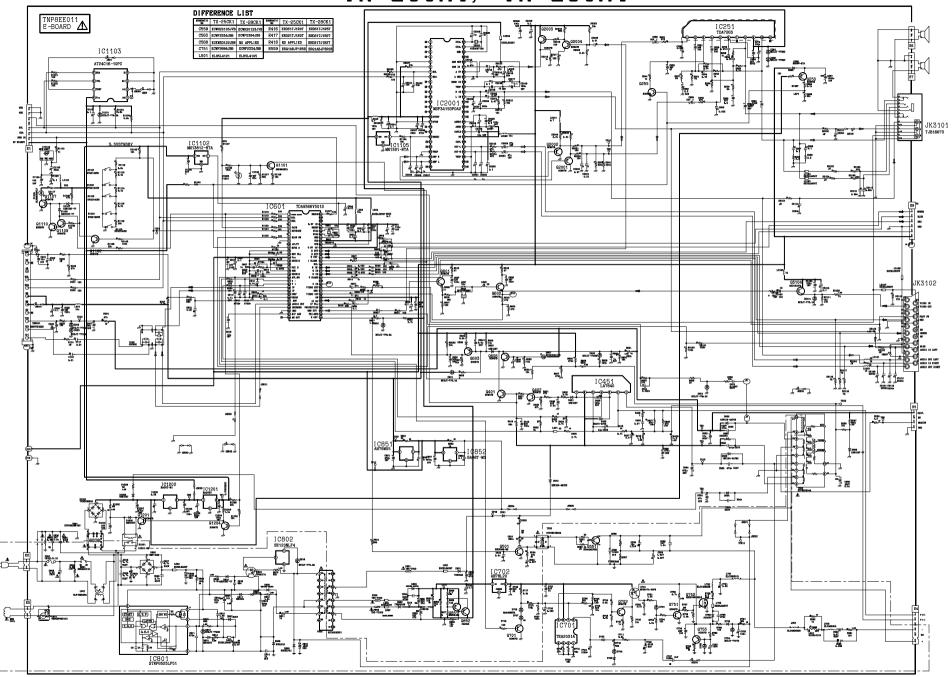
- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

NOTE

The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

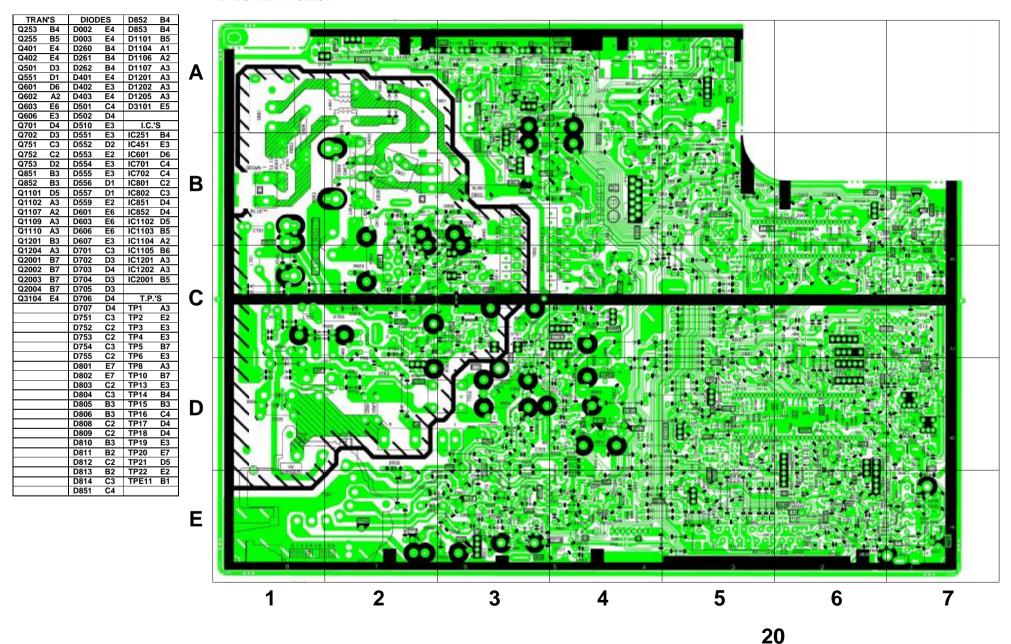


TX-25CK1, TX-28CK1

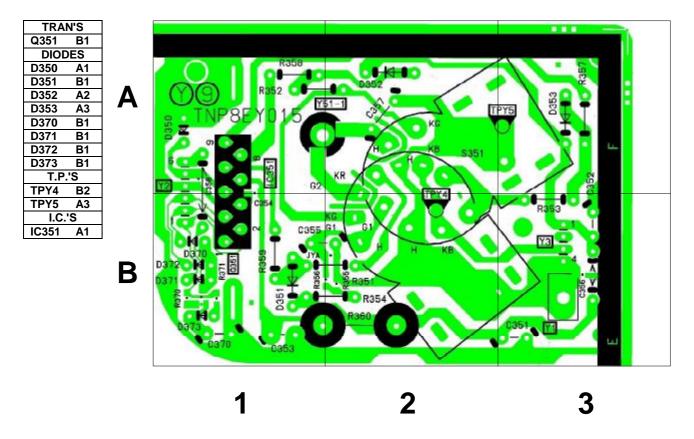


CONDUCTOR VIEWS FOR MODELS TX-28CK1, TX-25CK1

E - BOARD TNP8EE011



Y - BOARD TNP8EY015



NOTES

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